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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/046,995		01/14/2002	Jong Sik Paek	W2K1085	6353	
23504	7590	10/01/2003				
WEISS & N			EXAMINER			
4204 NORT SCOTTSDA		N AVENUE 85251		KANG, DO	KANG, DONGHEE	
				ART UNIT	PAPER NUMBER	
				2811		
			DATE MAILED: 10/01/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Aution Communication	10/046,995	PAEK, JONG SIK					
Office Action Summary	Examin r	Art Unit					
	Donghee Kang	2811					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron s, cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 14.	July 2003 .						
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 1.3.14.15 and 18-33 is/are pending i	n the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.						
5) Claim(s) 1,3,14,15,19-31 and 33 is/are allowed	d.	•					
6)⊠ Claim(s) <u>18 and 32</u> is/are rejected.	6)⊠ Claim(s) <u>18 and 32</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine							
10)☐ The drawing(s) filed on is/are: a)☐ acce							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
,		roved by the Examiner.					
If approved, corrected drawings are required in re							
12) The oath or declaration is objected to by the Ex	kaminer.						
Priority under 35 U.S.C. §§ 119 and 120		() () ()					
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119((a)-(d) or (t).					
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the pricapplication from the International But See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informa	ary (PTO-413) Paper No(s) Il Patent Application (PTO-152)					

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DETAILED ACTION

Remarks

1. Applicant's Amendment and Response to Paper NO.6 have been entered and made of Record. Claims 2, 4-13 & 16-17 have been cancelled and new claims 19-33 are added. Thus claims 1, 3, 14-15 & 18-33 are pending in this instant application.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 32 recites the limitation "the conductive bump" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims **18 & 32** are rejected under 35 U.S.C. 102(e) as being anticipated by Glenn et al. (US 6,342,406).

Re claim 18, Glenn et al. teach a semiconductor package comprising (Fig.2):

a semiconductor die (102) having means (104) for receiving light from outside of
the package, and a substantially of planar surface opposite of the means and having a

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plurality of electrical contacts (106); means (118) for connecting signals from the semiconductor die to an external device; and a glass (110: Col.4, lines 4-5) for permitting light to enter the semiconductor package and pass to the means for receiving light (Col.3, lines 37-38), the glass including means (114) embedded beneath a surface of the glass for connecting the plurality of electrical contacts to the means for connecting signals. See also Col.3, line 16 - Col.6, line 62.

Re claim 32, Glenn et al. teach the semiconductor package further comprising means (130) applied around a conductive bumps (112) at the periphery of the semiconductor die and between the semiconductor die and the glass for preventing extraneous material from reaching the light receiving surface.

Allowable Subject Matter

6. Claims 1, 3, 14-15, 19-31 & 33 are allowed.

The following is an examiner's statement of reasons for allowance:

Glenn et al. teach a semiconductor package comprising (Fig.2):

a semiconductor die (102) having a substantially planar light receiving surface for receiving light from outside of the package and having a plurality of electrical contacts (106); a plurality of terminals (122) for connecting signals from the semiconductor die to an external device; a glass (110: Col.4, lines 4-5) for permitting light to enter the semiconductor package (Col.3, lines 37-38) and pass to the light receiving surface of the semiconductor die, the glass including means (114, 118 & 116) for connecting the plurality of electrical contacts to the terminals.

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However, Glenn et al., taken along or in combination, do not teach or render obvious that the glass includes channels formed between the second surface thereof and an end thereof, and the conductive patterns are formed in the channels.

Response to Arguments

7. Applicant's arguments with respect to claims 18 & 32 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 703-305-9147. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Doughee Eng

dhk